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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

LEE, CHI HO A

ART UNIT

PAPER NUMBER

2663

DATE MAILED: 01/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/109,343

Applicant(s)

JAGANNATH ET AL

Examiner

Andrew Lee

Art Unit

2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 6/30/98.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Drawings***

1. Figures 1A, 1B and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “a modified packet having a label, the first header and the second header” must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Specification***

3. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

See page 2, line 22 and page 7, line 13.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by admitted prior art fig 2.

Re Claim 1, Admitted prior art fig 2 teaches the routing system using the VPN-IDs and reachability information. In particular, fig 2 teaches receiving a packet including VPN-ID [label], IP header and payload; a Route table 206 associates with the VPN-ID. It is inherent that the routing system includes a processor for processing the packet with the table.

Re Claims 2, 3, route/forwarding table 206.

Re Claim 4, VPN-ID 201 is the label for the VPN.

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Re Claim 5, it is inherent that the router includes an second port for transmitting the packet.

Re Claim 6, IP header is the Internet Protocol Header.

Re Claim 7, VPN-ID is the label and the reachability information is the forwarding label.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 8-20 rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art fig 2.

Re Claims 8 and 16, it is well known that the ISP may support plurality of VPNs and use private address spaces. Admitted prior art fig 2 teaches routing system wherein various VPNs can be unambiguously differentiated by indexing VPN-IDs stored in the routing table 206. Admitted prior art fig 2 fails to explicitly teach that maintaining a first and second tables corresponding to the first and second VPN networks. One of ordinary skilled would have realized the storing device for the routing table 206 could be configured to support plurality of tables, i.e., one table per VPN-ID. The motivation would have been to support various private addressing spaces. Therefore, it would have been obvious to one ordinary skilled configure the storing device to support plurality of tables corresponding to plurality of VPN addressing spaces.

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Re Claims 9 and 10, route/forwarding table 206.

Re Claims 11, 13, 15, 18, and 20, refer to Claim 8, VPN-ID 201 is the label for the VPN and provide indexing.

Re Claims 12, and 17, fig 2 teaches receiving a packet including VPN-ID [label], IP header and payload.

Re Claims 14 and 19, VPN-ID is the label and the reachability information is the forwarding label.

8. Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bots et al U.S. Patent Number 6,226,748 B1 in view of Admitted prior art fig 2.

Re Claim 21, Bots et al teaches in fig 2, VPNU (edge router) coupled to the Internet 250 (wide area network) wherein fig 3 teaches step 350, which transmits the packet comprising, encapsulated packet headers (a first and a second header) over the network (see col. 6, lines 53 +). Bots et al fails to explicitly teaches the modified packet having a label. Admitted prior art fig 2 teaches a routing system wherein various VPNs can be unambiguously differentiated by indexing VPN-IDs [label] stored in the routing table 206. One of ordinary skilled would have been motivated by the admitted prior art fig 2 to used VPD-ID indexing to support multiple VPNs. Therefore, it would have been obvious to one ordinary skilled to incorporate the Admitted prior art fig 2 into the teaching of Bots et al.

Re Claim 22, VPN-ID 201 is the label for the VPN.

Re Claim 23, VPN-ID is the label and the reachability information is the forwarding label.

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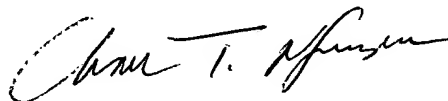
Re Claim 24, Internet 250 fig. 2 of Bots comprises of backbone router with routing tables.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 703-305-1500. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Andy Lee  
January 9, 2002



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